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<<人工智能与软计算-ICAISC 2006>>

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内容概要

This book constitutes the refereed proceedings of the 8th International Conference on Artificial Intelligence and Soft Computing, ICAISC 2006, held in Zakopane, Poland, in June 2006. The 128 revised contributed papers presented were carefully reviewed and selected from 400 submissions. The papers are organized in topical sections on neural networks and their applications, fuzzy systems and their applications, evolutionary algorithms and their applications, rough sets, classification and clustering, image analysis and robotics, bioinformatics and medical applications, various problems of artificial intelligence.

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书籍目录

Neural Networks and Their Applications Multiehannel Data Aggregation by Layers of Formal Neurons Estimation of Distribution Algorithm for Optimization of Neural Networks for Intrusion Detection System Neural Network Implementation in Reprogrammable FPGA Devices An Example for MLP A New Approach for Finding an Optimal Solution and Regularization by Learning Dynamic Momentum Domain Dynamics in Optimization Tasks Nonlinear Function Learning by the Normalized Radial Basis Function NetworksSum and Product Kernel Regularization Networks Chaotic Cellular Neural Networks with Negative Self-feedback An Efficient Nonlinear Predictive Control Algorithm with Neural Models and Its Application to a High-Purity Distillation Process Creativity of Neural Networks Speed Up of the SAMANN Neural Network Retraining Application of Neural Networks in Chain Curve Modelling RBF Nets in Faults Localization A Hypertube as a Possible Interpolation Region of a Neural Model RBF Neural Network for Probability Density Function Estimation and Detecting Changes in Multivariate Processes Fast Orthogonal Neural Networks Al Methods in Solving Systems of Interval Linear Equations A Fast and Numerically Robust Neural Network Training AlgorithmFuzzy Systems and Their Applications On Interpretation of Non-atomic Values and Induction of Decision Rules in Fuzzy Relational Databases A Genetic-Programming-Based Approach for the Learning of Compact Fuzzy Rule-Based Classification Systems Performance Evaluation of Fuzzy-Neural HTTP Request Distribution for Web Clusters Fuzzy Approach to Correlation Function A Method for Designing Flexible Neuro-fuzzy Systems Evolutionary Algorithms and Their Applications Rough Sets Classification and Clustering Bioinformatics and Medical Applications Various Problems of Artificial Intelligence Author Index

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